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## CLAIMS:

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2 An apparatus for coalescing droplets of one phase 1. 3 from a fluid comprising two or more phases, said 4 apparatus comprising a chamber (1), a coalescing 5 medium (5) comprising a plurality of substantially 6 elongate members (30) each having a surface area, 7 a retaining member (4, 14) to which the coalescing 8 medium (5) is secured, an inlet (21) to said a chamber, and an outlet (22) from said chamber, 10 said inlet and outlet being positioned such that 11 fluid flowing from said inlet (21) to said outlet 12 (22) flows in a flow direction in contact with 13 said surface area of said coalescing medium, the 14 elongate members (30) extending substantially in 15 the flow direction, characterised in that said 16 chamber is formed from a substantially straight 17 pipe having a first end and a second end and a 18 branch intermediate said first and second ends, 19 said outlet (22) being arranged at the first end 20 and an access cover (6) being arranged at the 21 second end, said inlet (21) being arranged at the 22 free end of said branch, wherein said access cover 23 is adapted to allow removal and replacement of the 24 retaining member (4, 14) and coalescing medium 25 (5). 26

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2. An apparatus in accordance with Claim 1, wherein said retaining member (4, 14) is adapted to be removably engaged within said chamber.

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32 3. An apparatus in accordance with Claim 1 or Claim
2, wherein the interior of said chamber is
provided with a shoulder (7) adapted to engage
with said retaining member.

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An apparatus in accordance with Claim 3, wherein said access cover (6) is adapted to hold said retaining member (4, 14) against said shoulder (7) when the access cover (6) is attached to the pipe (1).

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5. An apparatus in accordance with any of Claims 1 to 4, wherein said retaining member (4) is provided with one or more apertures (11) for securing said coalescing medium (5) to said retaining member (4).

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13 6. An apparatus in accordance with any preceding 14 claim, wherein said plurality of elongate members 15 are substantially mutually aligned fibres (30).

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7. An apparatus in accordance with Claim 6, wherein said coalescing medium (5) comprises ribbon-like fibres.

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21 8. An apparatus in accordance with Claim 6, wherein
22 said fibres (30) are selected from the group of
23 materials comprising polypropylene, metal wire,
24 animal hair, polyethylene, polyester, and glass
25 wool.

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9. An apparatus in accordance with any of Claims 1 to 6, wherein said coalescing medium (5) comprises one or more polypropylene ropes.

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10. A method for coalescing droplets of one phase from a fluid comprising two or more phases using the apparatus of any preceding Claim, in which the fluid is caused to flow in a flow direction through the chamber (1), each of the plurality of

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1		substantially elongate members (30) being
2		substantially aligned in the flow direction, such
3		that the fluid flows in contact with said surface
4		area of said coalescing medium (5) and droplets of
5		a first phase of said fluid coalesce on said
6		surface area.
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8	11.	A method in accordance with Claim 10, wherein the
9		fluid is a liquid.
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11	12.	A method in accordance with Claim 11, wherein the
12		fluid is a mixture of water and oil, and wherein
13		the first phase is oil.
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